

Gulf of Mexico Harmful Algal Bloom Bulletin

30 November 2006

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: November 27, 2006

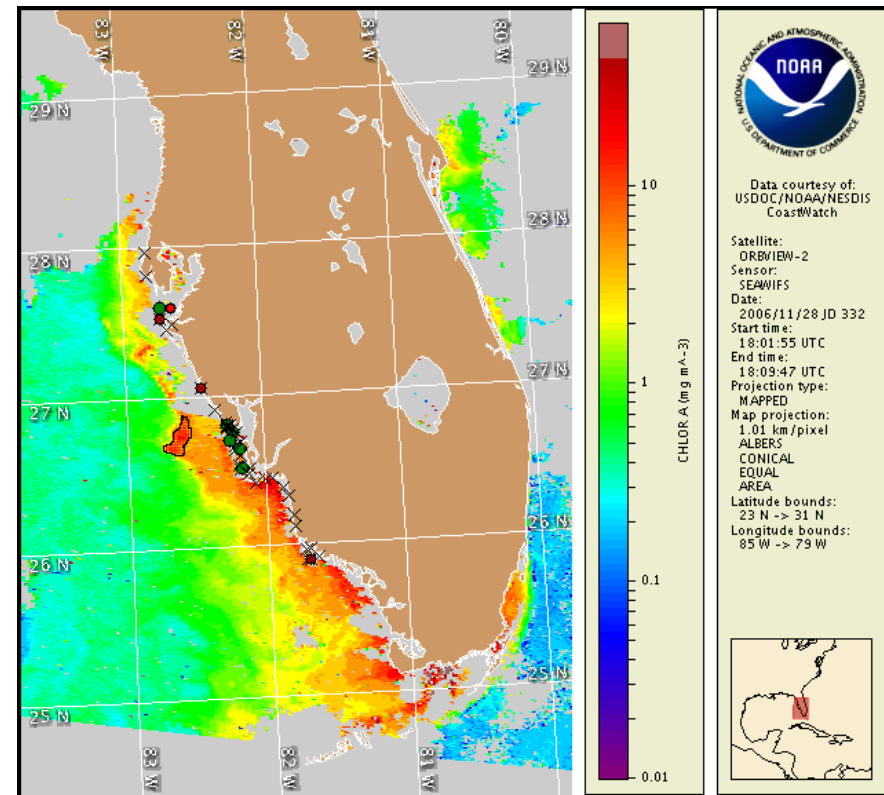
Conditions Report

A harmful algal bloom has been identified from southern Pinellas to central Collier County. Patchy very low impacts are possible today from southern Pinellas to Charlotte County, with patchy low impacts possible on Friday. Patchy very low impacts are possible Friday night through Sunday from southern Pinellas to Charlotte County. No impacts are expected for southern Lee and Collier Counties today through Sunday.

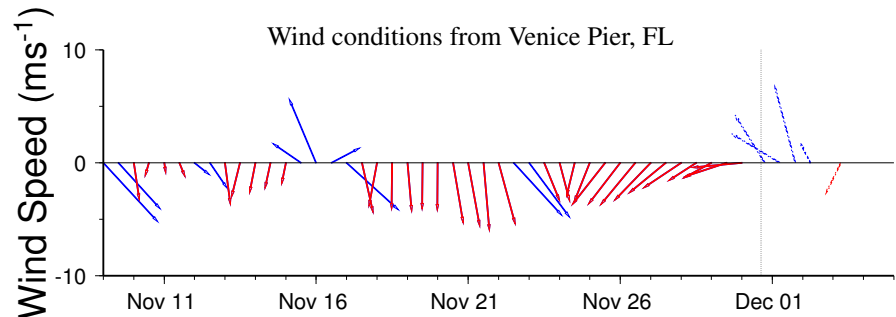
Analysis

The bloom persists along the southwest coast of Florida from southern Pinellas to central Collier County. Concentrations have continued to decrease over the past week. Samples taken from Englewood Beach and Gasparilla Fishing Pier in Charlotte County indicated that *K.brevis* was not present, which is a sharp decrease from previous concentrations of medium to high on 11/14-11/16 in that area. *K.Brevis* concentrations were also primarily not present throughout Pinellas, Collier, Charlotte, and Lee Counties (FWRI; 11/27). Recent imagery (11/28) indicates a high patch ($\sim 10 \mu\text{g/L}$) of chlorophyll offshore of Charlotte and Lee Counties with a central location of $26^{\circ}46'0''\text{N}$ $82^{\circ}37'7''\text{W}$. Concentrations of chlorophyll remain elevated along the coast from Pinellas to Collier counties, with levels as high as $15 \mu\text{g/L}$. Easterly winds throughout most of the weekend will minimize impacts, with the exception of southwesterly winds on Friday. Minimal movement of the bloom is expected over the weekend.

~Keller, Urizar



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration categories and corresponding cell count values from Florida Fish and Wildlife Research Institute. For a key to the cell concentration descriptions, visit <http://research.myfwc.com>. Cell concentration sampling data from November 20-29 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

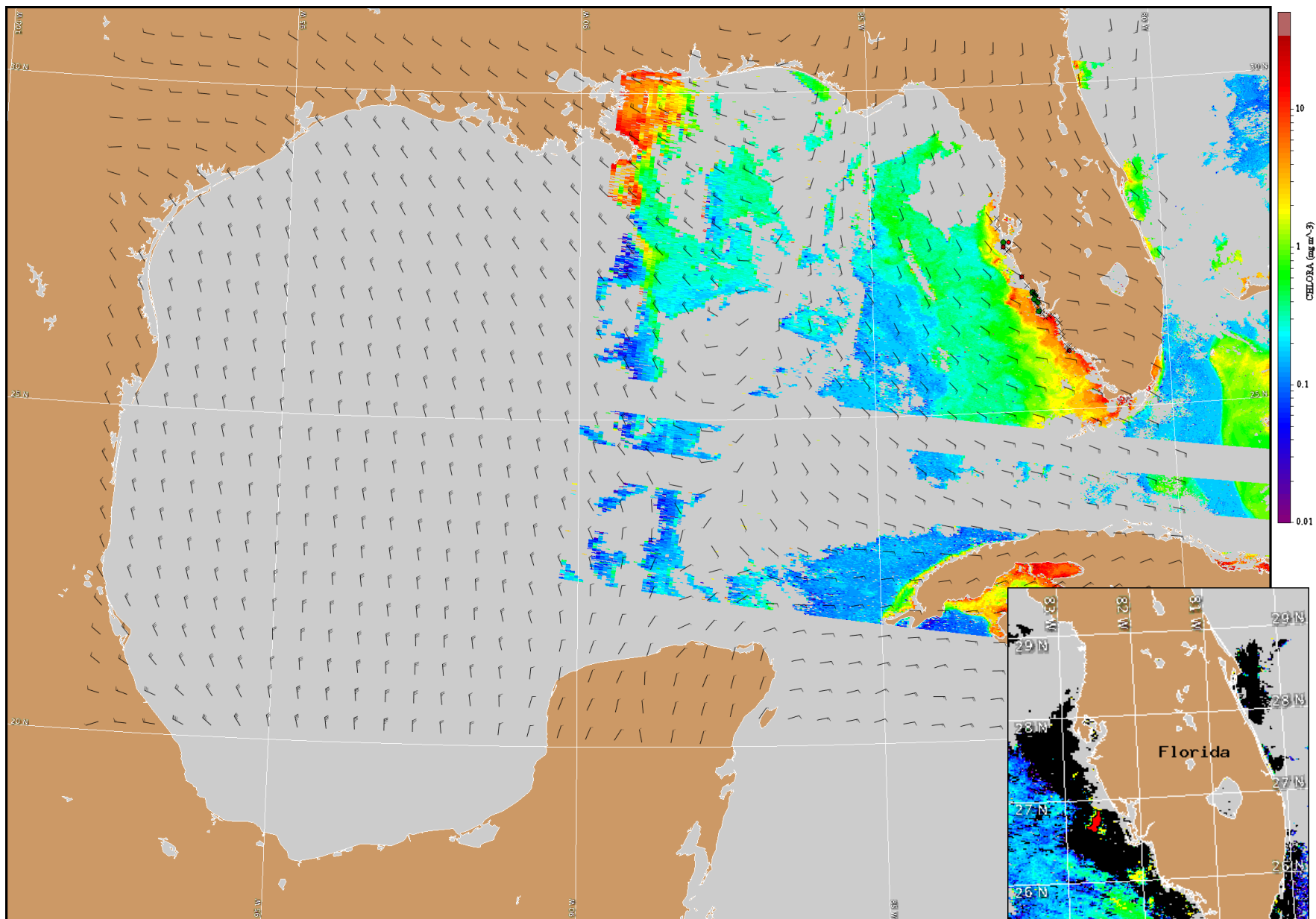


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Southeasterly winds today, with southwesterly winds on Friday. Northeasterly winds Friday night through Sunday (10-15 knots; 5-8 m/s).

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1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.



Satellite chlorophyll image and forecast winds for December 1, 2006 12Z with cell concentration sampling data from November 20-29 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

Verified HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).